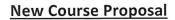
# **Curriculum Committee**





School or Division	School of Business and Technology	
Program or Certificate	Aviation Airframe Mechanics (PSAV)	
	Program Number – T640300	
	CIP Number - 0647060703	
Proposed by (faculty only)	Professor Leroy Bugger	
Presenter (faculty only)	Professor Leroy Bugger	
Note that the presenter (faculty) listed above must be present at the Curriculum Committee meetin		
the proposal will be returned to the School or Division and must be submitted for a later date.		
Submission date	10/12/2017	
Course prefix, number, and title	AMT 0701	
	AVIATION MAINTENANCE TECHNOLOGY GENERAL I	

# Section I, New Course Information (must complete all items)

List course prerequisite(s) and minimum	Admission into the Aviation Airframe Mechanics
grade(s) (must include minimum grade if higher than a "D").	(PSAV) program. Must have a minimum a minimum
	grade of "C" to pass.
Provide justification for the proposed prerequisite(s).	This is a limited access and limited enrollment
	program.
Will students be taking any of the prerequisites listed for this course in different parts of the	No
same term (ex. Term A and Term B)?	
List course co-requisites.	NA
Provide justification for the proposed co-	NA
requisite(s).	l N-
Is any co-requisite for this course listed as a co-	No
requisite on its paired course?	
(Ex. CHM 2032 is a co-requisite for CHM 2032L, and CHM 2032L is a co-requisite for CHM 2032)	NA .
Critivi 2032E is a co-requisite for Critivi 2032/	NA
Course credits or clock hours	120 clock hours
Contact hours (faculty load)	120 clock hours
Select grade mode	Standard Grading (A, B, C, D, F)
Credit type	Vocational Credit

#### Course description (provide below)

This course is designed to provide the student with an understanding of general hangar and shop safety, environmental concerns, mathematics, physics, basic aerodynamics, federal aviation regulations, publications and records. Human factors in maintenance are introduced and professional ethics are explored. Theory of flight, aircraft structure and control are discussed.

#### **General topic outline** (type in outline below)

- General hangar and shop safety
- Environmental concerns
- Mathematics, physics, basic aerodynamics as applied general aviation maintenance
- Federal aviation regulations, publications and records

Learning Outcomes: For information purposes only.

#### IV. Course Competencies, Learning Outcomes and Objectives

## A. General Education Competencies and Course Outcomes

- 1. Integral General Education Competency or competencies: Think
  - Use and understand the principles of simple machines: sound, fluid, and heat dynamics

#### **B.** Other Course Objectives/Standards

- Extract roots and raise numbers to a given power.
- Determine areas and volumes of various geometrical shapes.
- Solve ratio, proportion, and percentage problems.
- Perform algebraic operations involving addition, subtraction, multiplication, and division of positive and negative numbers.
- Describe the theory of flight and aircraft structures.
- Relate the benefits of Human Factors and safety.
- Use documents, publications, and records applicable to the maintenance technician.
- Demonstrate use of aircraft drawings, blueprints, charts and graphs; also prepare a sketch for an aircraft repair and/or alteration.

•	Demonstrate the ability to read, comprehend, and apply information in FAA and manufacturers' aircraft maintenance specifications, data sheets, manuals, publications, and related Federal Aviation Regulations, Airworthiness

Copy and Paste the SCNS Course Profile Description below (http://scns.fldoe.org/scns/public/pb\_index.jsp).

THIS COURSE IS DESIGNED TO INTRODUCE GENERAL HANGAR AND SHOP SAFETY, ENVIRONMENTAL CONCERNS, MATHEMATICS, PHYSICS, BASIC AERODYNAMICS, FEDERAL AVIATION REGULATIONS, PUBLICATIONS AND RECORDS.

ICS code for this course	POSTSECONDARY ADULT VOCATIONAL (PSAV) -
	1.26.02 - INDUSTRIAL
Should any major restriction(s) be listed on this	Yes
course? If so, select "yes" and list the	PSAV
appropriate major restriction code(s) or select	FJAV
"no".	
Is the course an "International or Diversity	No, not International or Diversity Focus
Focus" course?	
Is the course a General Education course?	No

Is the course a Writing Intensive course?	No
Is the course repeatable*?	No
(A repeatable course may be taken more than one time for additional credits. For example, MUT 2641, a 3 credit hour course can be repeated 1 time and a student can earn a maximum of 6 credits).  *Not the same as Multiple Attempts or Grade Forgiveness	
Do you expect to offer this course three times or	No
less (experimental)?	

Impact of Course Proposal		
Will this new course proposal impact other	No	
courses, programs, departments, or budgets?		
If the answer to the question above is "yes", list		
the impact on other courses, programs, or		
budgets?		
Have you discussed this proposal with anyone (from other departments, programs, or institutions)		
regarding the impact? Were any agreements made? Provide detail information below.		
NA		

## Section II, Justification for proposal

#### Provide justification (below) for this proposed curriculum action.

This course is part of a program being proposed to provide needed workforce credentialing to fill the gap and shortage of qualified aviation technicians, which is forecast to become more acute as a greater number of technicians retire than enter the field. In fact, according to a study commissioned by Boeing, commercial aviation will require 238,000 new technicians worldwide over the next 20 years, with North America accounting for 113,000 new technicians, almost 50% of total demand. According to an analysis prepared by EMSI, the job market in SWFL for A&P technicians is fairly strong, averaging 20 monthly postings and 47 monthly hires from April of 2013 through April of 2015. A&P technicians enjoy high average hourly earnings of greater than \$24/hr. The total economic impact of the program 10 years after implantation is forecast to be \$118.2 million and the average lifetime earnings for individual technicians are forecast to be improved (over what they would

otherwise have earned) of roughly \$525,000 in today's net present value dollars (for Airframe and Powerplant mechanics combined), so the economic development implications are quite significant. Gradates of similar programs are actively recruited not only by the aviation industry, but also by industries as diverse as elevator installation/repair and amusement park ride repair as the skills sets and particular attention to detail engendered by the A&P curriculum are essential in those industries, as well.

# Section III, Important Dates and Endorsements Required

List all faculty endorsements below. (Note that proposals will be returned to the School or Division if faculty endorsements are not provided).

Leroy Bugger (Department Chair), Dr. Tim Lucas, Jennifer Patterson, Andrew Blitz

**NOTE:** Course and Program changes must be submitted by the dates listed on the published Curriculum Committee Calendar. Exceptions to the published submission deadlines must receive prior approval from the Provost's Office.

Term in which approved action will take place	Fall 2018	0	
Provide an explanation below for the requested e	xception the submission deadline.		2

Any exceptions to the term start d	ate requires the signatures of the Academic D	ean or Associate
Vice President and the Provost pri	or to submission.	
Dean or Associate Vice President	Signature	Date
Type name here		
Provost	Signature	Date
Dr. Jeff Stewart		

Required Endorsements	Type in Name	Select Date
Department Chair or Program	Professor Leroy Bugger	10/13/2017
Coordinator/Director		

Academic Dean or Associate	Dr. Tom Rath	10/13/2017
Vice President		
Select Curriculum Committee N	Neeting Date	11/03/17
All Curriculum proposals require or denial of a proposal is reflecte		riculum Committee and the Provost. Final approval and signed proposal.
<b>√</b> Approve □ Do n	ot approve	
Curriculum Committee Chair Sign		1 <u>1</u>   <u>8</u>   17
Approve □ Do n	ot approve	
Provost signature		11 13 17 Date